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5340928, B9609-1130B-011, C9609-7410D-072; 960809.

Title

VHdbx: an X window system based high-level debugger for the VHDL simulation environment.

Author(s)

Bo-Wan; Jinian-Bian; Ed. by Baldwin-G-L; Li-Z; Tsai-C-C; Zhang-J.

Author affiliation

Dept of Comput Sci, Tsinghua Univ, Beijing, China.

Source

Proceedings of 4th International Conference on Solid-State and IC Technology, Beijing, China, 24-28 Oct. 1995.

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ISSN

ISBN: 0-7803-3062-5.

Publication year

1995.

Language

EN.

Publication type

CPP Conference Paper.

Treatment codes

A Application; P Practical.

Abstract

In this paper we present a graphical high-level debugger for the VHDL simulation environment. The features of the tool are its user friendly interface based on Motif under X Window system, a capability to high-level **debugging**, a capability to support many methods to set breakpoints, selective enabling and disabling of breakpoints, single stepping and trace mode, a capability to display source code, simulation results, and graphical views such as schematic diagram and design hierarchical diagram synchronically, a capability to view the current values of signals or variables and change them, a capability of visualization of simulation results, and a capability to view the waveform of results while simulating. (4 refs).

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Keywords

VHdbx; X window system; high level debugger; VHDL simulation environment; user friendly interface; Motif; selective enabling; selective disabling; breakpoints; single stepping; trace mode; source code; design hierarchical diagram; visualization; IC design; VLSI; digital simulation.

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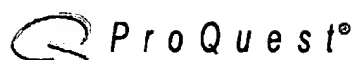
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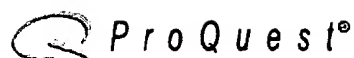
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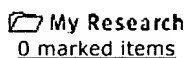
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